

Application No. 09/932,520
Docket No. 1999U021D1.US
Reply to Office Action Dated January 28, 2004

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently amended) A catalyst composition comprising ~~a~~ an olefin polymerization catalyst and at least two different solid compounds, which solid compounds react with each other above the polymerization operation temperature, at least one being an acid compound and at least one being a base compound to form a catalyst inhibitor that deactivates the catalyst composition.

Claim 2. (Previously cancelled)

Claim 3. (Previously cancelled)

Claim 4. (Original) The catalyst composition of claim 1 wherein the polymerization catalyst is supported.

Claim 5. (Previously amended) The catalyst composition of claim 1 wherein both of the two different compounds have a weight loss of less than 20 weight percent measured using thermogravimetric analysis at 80° C for 20 minutes.

Claim 6. (Original) The catalyst composition of claim 1 at least one of the two different compounds has a dielectric constant greater than 2.

Claim 7. (Currently amended) The catalyst composition of claim 1 wherein ~~the least two different compounds are at least one acid compound and at one base compound~~ the catalyst is at least one early transition metal metallocene.

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Claim 8. (Currently amended) The catalyst composition of claim 7 1 wherein the at least one acid compound has at least one -OH functional group and the at least one base compound has at least one =O functional group.

Claim 9. (Original) The catalyst composition of claim 1 wherein the at least two different compounds are at least one oxidant and at least one reductant.

Claim 10. (Original) The catalyst composition of claim 1 wherein the catalyst inhibitor comprises carbon dioxide.

Claim 11. (Currently amended)

Claim 12. (Cancelled)

Claim 13. (Original) The catalyst composition of claim 1 wherein the mole ratio of the at least one acid compound and the at least one base compound is in the range of from 20 to 0.05.

Claim 14. (Currently amended) The catalyst composition of claim 7 1 wherein the acid compound is a Bronsted acid and the base compound is a Bronsted base.

Claims 15 - 34 (previously cancelled)

Claim 35. (Currently amended) A catalyst composition comprising a bulky ligand metallocene-type catalyst compound, and activator, a support, a solid acid compound and a solid base compound, wherein the acid compound and the base compound are ~~unreactive~~ react with each other at the polymerization operation temperature.

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Claim 36. (Original) The catalyst composition of claim 35 wherein the acid compound is a Bronsted acid and the base compound is a Bronsted base.

Claim 37. (Previously amended) The catalyst composition of claim 35 wherein when the catalyst composition is heated to greater than 25° C, the acid compound and base compound react to form a catalyst inhibitor.

Claim 38. (Previously cancelled)

Claim 39. (Original) The catalyst composition of claim 35 wherein the mole ratio of the at least one acid compound and the at least one base compound is in the range of from 20 to 0.05.

Claims 40-45(Previously cancelled)

Claim 46 (new) The catalyst composition of claim 36 wherein the acid compound is L-malic acid and the base compound is an alkali or alkaline earth carbonate.